

Serial No.: 10/522,055

Office Action dated: February 22, 2007

Amendment dated: August 22, 2007

IN THE SPECIFICATION:

Please amend the Specification of the above-identified application as follows.

On page 1, above the Title of the Invention beginning on line 1, please insert the following:

--TITLE OF THE INVENTION--

Please amend the Title of the Invention beginning on page 1, line 1 as follows.

-- METHOD OF NON-INVASIVE AMBULATORY
EXPLORATION FOR ASSESSING DIGESTIVE MOTRICITY--MOTILITY
AND/OR TRANSIT, AND CORRESPONDING SYSTEM--

On page 1, above the paragraph beginning on line 4, please insert the following:

--BACKGROUND OF THE INVENTION--

Please amend the paragraph beginning on page 1, line 4 as follows:

--The present invention relates to a method of non-invasive ambulatory exploration allowing the assessment of digestive ~~motricity and/or~~ motility and transit, and a corresponding system.--

Please amend the paragraph beginning on page 1, line 7 as follows:

-- Currently the techniques proposed for measuring the digestive ~~motricity~~ motility are invasive, requiring intubation of the patient (manometric and electromyographic techniques).--

Please amend the paragraph beginning on page 1, line 12 as follows:

-- These known techniques in particular have the following drawbacks:

- they cannot be easily applied in everyday clinical practice and require a very significant human and material input;
- problems of toxicity are encountered in particular in children, pregnant women;
- it is often impossible to correlate the phenomena recorded for studying the ~~motricity~~ motility of an organ with transit measurements.--

On page 1, above the paragraph beginning on line 19, please insert the following:

--SUMMARY OF THE INVENTION--

Please amend the paragraph beginning on page 1, line 19 as follows:

--The purpose of the present invention is to overcome ~~these~~the
above drawbacks and to propose a method and a system of non-invasive
exploration which can, at a low cost, assess the function of each organ involved in
digestion (stomach, small intestine, colon), and more particularly simultaneously
assess the digestive ~~metricity~~motility and transit.--

Please amend the paragraph beginning on page 1, line 24 as follows:

--It proposes a method of non-invasive exploration for assessing the
digestive ~~metricity and/or~~motility and transit of a human or animal subject,
characterized in that it consists of:

- ~~said~~the subject swallowing an ingestible transmitting element which is non-digestible containing means transmitting at a given fixed frequency;
- measuring, at a given time using at least three frequency reception means distributed around said subject's trunk, the

phase shift of the frequency transmitted by said transmission means relative to a reference phase;

- determining by triangulation on the basis of the three phase-shift measurements the position of said ~~the~~ element;
- defining, according to the position of said ~~the~~ element, a data for the assessment of the digestive ~~motricity~~ motility and/or transit.--

Please amend the paragraph beginning on page 2, line 7 as follows:

-- The present invention also proposes a corresponding system, characterized by:

- on the one hand:
 - an ingestible transmitting element which cannot be digested by said ~~the~~ subject containing means transmitting at a given fixed frequency;
- and
- on the other hand:
 - frequency receiving means comprising at least three frequency receivers intended to be placed around the trunk of said ~~the~~ subject, each receiver being able to measure at a given time the phase shift of said transmission frequency relative to a reference phase;
 - means for processing and analyzing the three phase-shift measurements made by said ~~the~~ receivers which are able to determine, by triangulation, the position of said element.--

Please amend the paragraph beginning on page 2, line 21 as follows:

--Thus, according to the invention, a transmitter circulates in the digestive system, while the data collection takes place in an ambulatory manner using at least three receivers distributed for example on the circumference of the abdominal belt. The basic principle is to measure at a given time the phase shift which is produced between two identical frequencies when the distance from the transmitting source relative to its reference position (corresponding for example to the transmitter in the mouth) is varied. Preferably a high-frequency transmission is chosen because it allows improvement in the precision of the measurements. Using three phase-shift measurements made approximately simultaneously, it is then possible to determine, by triangulation, the position in a three-dimensional reference frame of the transmitter and to deduce a characteristic relating to the digestive ~~motricity~~ motility and/or transit (for example using software including data interpretation).--

On page 4, above the paragraph beginning on line 23, please insert the following:

--BRIEF DESCRIPTION OF THE DRAWINGS--

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On page 5, above the paragraph beginning on line 5, please insert the following:

--DETAILED DESCRIPTION--